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Set Items Description

S1 2125028 S QUERY OR QUERIES OR QUERYING OR SQL OR SEARCH?? OR SEARCHING
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S10 0 S S6 (10N) S9

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[File 348] EUROPEAN PATENTS 1978-2007/ 20070708

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*File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

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Patents - bib/abstracts (Note: no relevant references found in this set of databases.)

Set Items Description

S1 6743 S NORMALIZE? ? OR NORMALIZING OR NORMALIZATION? ?
S2 131 S S1 (10N) (SORT OR SORTS OR SORTED OR SORTING OR ORDER OR ORDERED OR ORDERING)
S3 101 S PARTIAL()(SUM OR SUMS)
S4 0 S S2 AND S3

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[File 347] JAPIO Dec 1976-2006/Oct(Updated 070201)

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NPL - bib/abstracts

set Items Description

S1 267817 S NORMALIZE? ? OR NORMALIZING OR NORMALIZATION? ?

S2 6287 S S1 (10N) (SORT OR SORTS OR SORTED OR SORTING OR ORDER OR ORDERED OR ORDERING)

S3 9693 S PARTIAL()(SUM OR SUMS)

S4 9 S S3 AND S2

S5 8 RD (unique items)

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[File 8] **Ei Compendex(R)** 1884-2007/Feb W3

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[File 35] **Dissertation Abs Online** 1861-2007/Feb

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*File 94: UD200609W2 is the last update for 2006. UD200701W1 is the first update for 2007. The file is complete and up to date.

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13313320 Genuine Article#: 868LV Number of References: 31

Stable limits of sums of bounded functions of long-memory moving averages with finite variance

Author: Surgailis D (REPRINT)

Corporate Source: Vilnius Inst Math & Informat,Akademijos 4/LT-2600 Vilnius//Lithuania/ (REPRINT); Vilnius Inst Math & Informat,LT-2600 Vilnius//Lithuania/ (sdonatas@ktl.mii.lt)

Journal: BERNOULLI , 2004 , V 10 , N2 (APR) , P 327-355

ISSN: 1350-7265 **Publication date:** 20040400

Publisher: INT STATISTICAL INST , 428 PRINSES BEATRIXLAAN, 2270 AZ VOORBURG, NETHERLANDS

Language: English **Document Type:** ARTICLE

Geographic Location: Lithuania

Journal Subject Category: STATISTICS & PROBABILITY

Abstract: We discuss limit distributions of **partial sums** of bounded functions h of a long-memory moving-average process $X_t = \sum_{j=1}^{\infty} b(j)x_i(t-j)$ with coefficients $b(j)$ decaying as $j(-\beta)$, $1/2 < \beta < 1$, and independent and identically distributed innovations $x_i(s)$ whose probability tails decay as $x(-a)$, $2 < a < 4$. The case of h having Appell rank $k^* = 2$ or 3 is discussed in detail. We show that in this case and in the parameter region $\alpha < 2$, the **partial sums** process, normalized by $N^{-1/\alpha}$, weakly converges to an α -stable Levy process, provided that the **normalization** dominates the corresponding k^* -th-order Hermite process **normalization**, or that $1/\alpha > 1 - (2\beta - 1)k^*/2$. A complete characterization of limit distributions of the **partial sums** process remains open.

Descriptors--Author Keywords: Appell rank ; fractional derivative ; Hermite process ; long memory ; moving-average process ; partial sums process ; stable Levy process

Identifiers-- KeyWord Plus(R): FRACTIONAL BROWNIAN-MOTION; EMPIRICAL PROCESSES; ASYMPTOTIC- EXPANSION; INFINITE VARIANCE; GAUSSIAN FIELDS; THEOREMS; CONVERGENCE; ESTIMATORS; SEQUENCES; ERRORS

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KOUL HL, 2002, EMPIRICAL PROCESS TE
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TAQQU MS, 1979, V50, P53, Z WAHRSCHEINLICHKEIT
TAQQU MS, 1975, V31, P287, Z WAHRSCHEINLICHKEIT
TAQQU MS, 1986, DEPENDENCE PROBABILI
VAICIULIS M, 2003, V43, P80, LITHUANIAN MATH J
VONBAHR B, 1965, V36, P299, ANN MATH STAT
WU WB, 2003, V9, P809, BERNOULLI

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05403077 Genuine Article#: VW014 Number of References: 14

SERIES REPRESENTATION FOR SEMISTABLE LAWS AND THEIR DOMAINS OF SEMISTABLE ATTRACTION

Author: MEERSCHAERT MM; SCHEFFLER HP

Corporate Source: UNIV NEVADA,DEPT MATH/RENO//NV/89557

Journal: JOURNAL OF THEORETICAL PROBABILITY , 1996 , V 9 , N4 (OCT) , P 931-959

ISSN: 0894-9840

Language: ENGLISH **Document Type:** ARTICLE

Geographic Location: USA

Subfile: SciSearch; CC PHYS--Current Contents, Physical, Chemical & Earth Sciences

Journal Subject Category: STATISTICS & PROBABILITY

Abstract: If the centered and normalized **partial sums** of an i.i.d. sequence of random variables converge in distribution to a nondegenerate limit then we say that this sequence belongs to the domain of attraction of the necessarily stable limit. If we consider only the **partial sums** which terminate at $k(n)$ where $k(n+1) \sim ck(n)$ then the sequence belongs to the domain of semistable attraction of the necessarily semistable limit. In this paper, we consider the case where the limiting distribution is nonnormal. We obtain a series representation for the **partial sums** which converges almost surely. This representation is based on the order statistics, and utilizes the Poisson process. Almost sure convergence is a useful technical device, as we illustrate with a number of applications.

Descriptors--Author Keywords: LEPAGE SERIES REPRESENTATION ; SEMISTABLE LAWS ; DOMAINS OF SEMISTABLE ATTRACTION ; REGULAR VARIATION ; ORDER STATISTICS ; POISSON PROCESS ; TRIMMED SUMS ; SELF-NORMALIZED SUMS

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SHIMIZU R, 1970, V22, P245, ANN I STAT MATH

5/5/5 (Item 2 from file: 239)

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Mathsci

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03672029 MR 2005e#42087

Weak type inequalities for the Walsh and bounded Ciesielski systems.

Weisz, Ferenc (Department of Numerical Mathematics, Eotvos Lorand University (ELTE), 1088 Budapest, Hungary)

Corporate Source Codes: H-EOTVO-NM

Anal. Math.

Analysis Mathematica, 2004, 30, no. 2, 147–160. ISSN: 0133-3852 CODEN: ANMADK

Language: English Summary Language: English

Document Type: Journal

Journal Announcement: 200416

Subfile: MR (Mathematical Reviews) AMS

Abstract Length: LONG (67 lines)

Let $\$w\backslash sb\ n\backslash (n=0, 1, \dots)$ and $\$h\backslash sb\ n\backslash (n=1, 2, \dots)$ be the Walsh-Paley and the Haar system, resp., denote by $\$D$ the differentiation operator and define the integration operators $\$Gf(t)\backslash colon eq \int\backslash sb 0\backslash sp tf, \$Hf(t)\backslash colon eq \int\backslash sb t\backslash sp 1f\$$. Let $\$m\backslash geq -1$ be a fixed integer. Apply the Schmidt orthogonalization to the functions $\$1, t, \dots, t^{m+1}, G\backslash sp {m+1}h\backslash sb n(t)\backslash $$ $\$(n\backslash geq 2)$. Then we get a spline system $\$f\backslash sb n\backslash sp m\$$ $\$(n\backslash geq m)$, the so-called Ciesielski system of order $\$m\$$. If $\$0\backslash leq k\backslash leq m+1$ and $\$n\backslash geq k-m$, then let $\$f\backslash sb n\backslash sp {m,k}\backslash colon eq D\backslash sp kf\backslash sb n\backslash sp m, \$g\backslash sb n\backslash sp {m,k}\backslash colon eq H\backslash sp kf\backslash sb n\backslash sp m\$$ (splines of order $\$s(m,k)$). We normalize these functions as follows: $\$h\backslash sb n\backslash sp {m,k}\backslash colon eq f\backslash sb n\backslash sp {m,k}\backslash Vert f\backslash sb n\backslash sp {m,k}\backslash Vert \backslash sb 2\backslash sp {-1}\$$ for $\$0\backslash leq k\backslash leq m+1$ and $\$h\backslash sb n\backslash sp {m,k}\backslash colon eq g\backslash sb n\backslash sp {m,-k}\backslash Vert f\backslash sb n\backslash sp {m,-k}\backslash Vert \backslash sb 2\$$ for $\$0\backslash leq -k\backslash leq m+1$. If $\$m=-1$ and $\$k=0$, then we get the Haar system and in the special case $\$m=k=0$ the system in question is the Franklin system. The bounded Ciesielski system $\$c\backslash sb n\backslash sp {m,k}\backslash $$ $\$(n\backslash geq \backslash vert k\backslash vert -m)$ is obtained from $\$h\backslash sb n\backslash sp {m,k}\backslash $$'s in the same way as the Walsh system arises from the Haar system, namely $\$c\backslash sb n\backslash sp {m,k}\backslash colon eq h\backslash sb n\backslash sp {m,k}\backslash $(n=\backslash vert k\backslash vert -m, \dots, 1)$ and $\$c\backslash sb 2\backslash sp {\{nu\}+i}\backslash sp {m,k}\backslash colon eq \sum\backslash sb \{j=1\}\backslash sp \{2\backslash sp {\{nu\}}A\backslash sb \{ij\}\backslash sp {\{nu\}}h\backslash sb \{2\backslash sp {\{nu\}}+j\}\backslash sp {m,k}\backslash $(1\backslash leq i\backslash leq 2\backslash sp {\{nu\}}, \$m\backslash geq -1, \$\backslash vert k\backslash vert \backslash leq m+1)$. Here the Hadamard coefficients $\$A\backslash sb \{ij\}\backslash sp {\{nu\}}$ are defined as $\$A\backslash sb \{ij\}\backslash sp {\{nu\}}\backslash colon eq 2\backslash sp {\{-nu/2\}}w\backslash sb \{i-1\}((2j-1)/2\backslash sp {\{nu+1\}})$. Then $\$c\backslash sb n\backslash sp {-1,0}=w\backslash sb \{n-1\}\backslash $(n\backslash geq 1)$. For $\$m\backslash geq -1$, $\backslash vert k\backslash vert \backslash leq m+1$ the partial sums, the Fejér means, and a maximal operator are defined by $\$C\backslash sb n\backslash sp {m,k}\backslash colon eq \sum\backslash sb \{i=\backslash vert k\backslash vert -m\}\backslash sp n\backslash angle f, c\backslash sb i\backslash sp {m,k}\backslash rangle c\backslash sb i\backslash sp {m,-k}\$, \$sigma\backslash sb n\backslash sp {m,k}\backslash colon eq n\backslash sp {-1}\backslash sum\backslash sb \{j=1\}\backslash sp nC\backslash sb j\backslash sp {m,k}\$, \$sigma\backslash sb *i\backslash sp {m,k}\backslash colon eq \sum\backslash sb n\backslash vert \backslash sigma\backslash sb n\backslash sp {m,k}\backslash fvert \$$, resp., where $\$angle u, v\backslash rangle$ denotes the usual scalar product $\$int\backslash sb 0\backslash sp 1uv$. The Lorentz norm $\$Vert f\backslash Vert \backslash sb \{p, \infty\}\backslash $(0 < p < \infty)$ of a measurable function $\$f\$$ defined on $\$[0,1]$ is $\$Vert f\backslash Vert \backslash sb \{p, \infty\}\backslash colon eq \sum\backslash sb \{rho\}\backslash rho(\{rm meas\})\backslash \{vert f\backslash vert >\backslash rho\}\backslash sp \{1/p\}$. Furthermore, let $\$P\backslash sb t\backslash sp {m,k}(x)\backslash colon eq (ct)/(t+\backslash vert x\backslash vert \backslash sp 2)$ with a suitable constant $\$c$ and $\$P\backslash sb t\backslash sp {m,k}(x)\backslash colon eq \chi\backslash sb \{[0,2\backslash sp {-n}]\}(x)\backslash $(k=m+1, n\backslash leq t\backslash leq n+1, x\in \{bf R\})$. For a tempered distribution $\$f$, the nontangential maximal function $\$f\backslash sb *i\backslash sp {m,k}\backslash $$ is defined by $\$f\backslash sb *i\backslash sp {m,k}\backslash colon eq \sum\backslash sb \{t>0\}\backslash vert f\star P\backslash sb t\backslash sp {m,k}\backslash vert \$$, where $\$star$ denotes the usual convolution. Now, let the Hardy space $\$H\backslash sb p\backslash colon eq H\backslash sb p\backslash sp {m,k}([0,1])\backslash $(0 < p < \infty)$. $\$Vert k\backslash vert \backslash leq m+1$ be the set of all tempered distributions $\$f\$$ such that $\text{supp } f\subset [0,1]$ and $\$Vert f\backslash Vert \backslash sb \{H\backslash sb p\}\backslash colon eq \Vert f\backslash vert \backslash sp {m,k}\backslash Vert \backslash sb p < \infty$. Then the main result of the work under review is Theorem 2: if $\$m\backslash geq -1$ and $\$vert k\backslash vert \backslash leq m+1$, then $\$Vert \backslash sigma\backslash sb *i\backslash sp {m,k}\backslash f\backslash Vert \backslash sb \{1/2, \infty\}\backslash leq C\backslash Vert f\backslash Vert \backslash sb \{H\backslash sb \{1/2\}\}\backslash $(f\in H\backslash sb \{1/2\})$. From this we get by interpolation that $\$Vert \backslash sigma\backslash sb *i\backslash sp {m,k}\backslash f\backslash Vert \backslash sb p\backslash leq \$C\backslash sb p\backslash Vert f\backslash Vert \backslash sb \{H\backslash sb p\}\backslash $(m\backslash geq -1, \vert k\backslash vert \backslash leq m+1, \$1/2 < p < \infty)$. In particular, $\$sigma\backslash sb *i\backslash sp {m,k}\backslash $ is of weak type $(1,1)$ and $f\in L\backslash sb 1$ implies $\$sigma\backslash sb n\backslash sp {m,k}\backslash f\rightarrow f$ a.e. as $n\rightarrow \infty$. These corollaries are extensions of well-known results proved earlier by N. J. Fine, F. Schipp, N. J. Fujii and the author (see the references of the work). Furthermore, P. Simon [Monatsh. Math. 131 (2000), no. 4, 321–334; [refmr MR1813992 \(2001m:42052\) endrefmr](#)] gave a counterexample in the case of the Walsh-Fourier series, i.e. that the operator $\$sigma\backslash sb *i\backslash sp {-1,0}\backslash $$ is not bounded from $\$H\backslash sb p\backslash $$ to $\$L\backslash sb p\backslash $$ for $0 < p < 1/2$.$

Reviewer: Simon, P. (H-EOTVO-NA)

Review Type: Signed review

Descriptors: * 42C10 -Fourier analysis-Nontrigonometric Fourier analysis-Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.) ; 42B20 -Fourier analysis-Fourier analysis in several variables (For automorphic theory, see mainly 11F30)-Singular integrals (Calder'on-Zygmund, etc.)

5/5/6 (Item 3 from file: 239)

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03455365 MR 2003k#41040

On the best approximation by Chebyshev system of Jacobi polynomials.

Yadav, Sarjoo Prasad (Department of Mathematics, Government Maharaja College, Chhatarpur 471001, India)

Corporate Source Codes: 6-MAHA

J. Ramanujan Math. Soc.

Journal of the Ramanujan Mathematical Society , 2002 , 17 , no. 4, 261--266. ISSN: 0970-1249

Language: English **Summary Language:** English

Document Type: Journal

Journal Announcement: 200307

Subfile: MR (Mathematical Reviews) AMS

Abstract Length: SHORT (10 lines)

The author considers the Chebyshev system formed by the **normalized** Jacobi polynomials on $\left[-1, 1\right]$, and studies the **order** of approximation of a function f in $C[-1, 1]$ (respectively L^p , $1 \leq p < \infty$) by the **partial sums** S_n of the Fourier-Jacobi series associated with f . One obtains an analogue of the Lebesgue theorem for trigonometric Fourier series. Jackson-type theorems, for the evaluation of best uniform and L^p -approximation by linear combinations of normalized Jacobi polynomials, are also obtained.

Reviewer: Mustata, Costica (Cluj-Napoca)

Review Type: Signed review

Descriptors: * 41A50 -Approximations and expansions (For all approximation theory in the complex domain, see~30E05 and 30E10; for all trigonometric approximation and interpolation, see~42A10 and 42A15; for numerical approximation, see~65Dxx)-Best approximation, Chebyshev systems ; 41A10 -Approximations and expansions (For all approximation theory in the complex domain, see~30E05 and 30E10; for all trigonometric approximation and interpolation, see~42A10 and 42A15; for numerical approximation, see~65Dxx)-Approximation by polynomials (For approximation by trigonometric polynomials, see 42A10)

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02795765 MR 98f#60038

Some analogs of the Berry-Esseen bound for first-order Chebyshev-Edgeworth expansions.

Dobric, V. (Department of Mathematics, Lehigh University, Bethlehem, Pennsylvania, 18015)

Ghosh, B. K. (Department of Mathematics, Lehigh University, Bethlehem, Pennsylvania, 18015)

(Ghosh, Bhaskar K.)

Corporate Source Codes: 1-LEHI; 1-LEHI

Statist. Decisions

Statistics & Decisions. International Mathematical Journal for Stochastic Methods and Models , 1996 , 14 , no. 4; 383--404.

ISSN: 0721-2631

Language: English **Summary Language:** English

Document Type: Journal

Journal Announcement: 9709

Subfile: MR (Mathematical Reviews) AMS

Abstract Length: SHORT (6 lines)

This paper investigates the uniform Berry-Esseen bound for the first- order Edgeworth expansion of the distribution function of **normalized partial sums**. An explicit form of the upper bound is given. This work makes the first-order Edgeworth expansion usable in practice. Some examples to compute the bounds based on the main results of the paper are given.

Reviewer: Bai, Zhi-Dong (RC-SYS-AM)

Review Type: Signed review

Descriptors: * 60F05 -Probability theory and stochastic processes (For additional applications, see 11Kxx, 62-XX, 90-XX, 92-XX, 93-XX, 94-XX. For numerical results, see 65U05)-Limit theorems (See also 28Dxx, 60B12)-Central limit and other weak theorems ; 62E20 -Statistics (For numerical methods, see 65U05)-Distribution theory (See also 60Exx)-Asymptotic distribution theory

NPL - fulltext (Note: no relevant references found in this set of databases.)

Set Items Description

S1 102768 S NORMALIZE? ? OR NORMALIZING OR NORMALIZATION? ?

S2 1817 S S1 (10N) (SORT OR SORTS OR SORTED OR SORTING OR ORDER OR ORDERED OR ORDERING)

S3 274 S PARTIAL()(SUM OR SUMS)

S4 0 S S2 (30N) S3

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[File 674] **Computer News Fulltext** 1989-2006/Sep W1
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*File 674: *File 674 is closed (no longer updates).*

NPL - bib/abstract - with definition of "partial sum"

Set Items Description

S1 267817 S NORMALIZE? ? OR NORMALIZING OR NORMALIZATION? ?

S2 6287 S S1 (10N) (SORT OR SORTS OR SORTED OR SORTING OR ORDER OR ORDERED OR ORDERING)

S3 89853 S (VALUE? ? OR NUMBER? ? OR WEIGHT? ?) (5W) (GREATER OR MORE OR HIGHER OR LARGER OR BIGGER)(THAN

S4 1131 S (SUM OR SUMS OR SUMMED OR SUMMING OR TOTAL OR TOTLED OR TOTALING) (5W) S3

S5 1 S S2 AND S4

; show files

[File 8] **Ei Compendex(R)** 1884-2007/Feb W3

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[File 35] **Dissertation Abs Online** 1861-2007/Feb

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[File 65] **Inside Conferences** 1993-2007/Feb 27

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[File 2] **INSPEC** 1898-2007/Feb W3

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[File 94] **JICST-EPlus** 1985-2007/Mar W1

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*File 94: UD200609W2 is the last update for 2006. UD200701W1 is the first update for 2007. The file is complete and up to date.

[File 111] **TGG Natl.Newspaper Index(SM)** 1979-2007/Feb 21

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[File 6] **NTIS** 1964-2007/Feb W4

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[File 144] **Pascal** 1973-2007/Feb W3

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[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec

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[File 62] **SPIN(R)** 1975-2007/Feb W2

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[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Jan

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[File 95] **TEME-Technology & Management** 1989-2007/Feb W3

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[File 56] **Computer and Information Systems Abstracts** 1966-2007/Feb

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[File 57] **Electronics & Communications Abstracts** 1966-2007/Feb

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[File 60] **ANTE: Abstracts in New Tech & Engineer** 1966-2007/Feb

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[File 266] **FEDRIP** 2007/Jan

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[File 438] **Library Lit. & Info. Science** 1984-2007/Jan

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[File 239] **Mathsci** 1940-2007/Mar

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5/5/1 (Item 1 from file: 239)

Mathsci

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01631479 MR 81h#68013

Equivalent key problem of the relational database model.

Mathematical studies of information processing (Proc. Internat. Conf., Kyoto, 1978)

Kambayashi, Yahiko

1979 ,

Springer, Berlin-New York, ; pp. 165--192, ,

Series: Lecture Notes in Comput. Sci., 75,

Language: English

Document Type: Proceedings Paper

Journal Announcement: 1226

Subfile: MR (Mathematical Reviews) AMS

Abstract Length: MEDIUM (17 lines)

Author's summary: "In the relational database model, it is important to obtain a set of relations which are **normalized**. In order to reduce the **total number of normalized relations**, relations with **more than one key** must be considered. Keys in the same relation are called equivalent. Bernstein has developed an algorithm to obtain a minimum relation set using the key equivalence concept. The major results of this paper are that (a) problems of the Bernstein algorithm are pointed out and algorithms to handle these problems are shown and (b) for several normalization classes, algorithms for minimum schema design are given considering the key equivalence. The following approaches are used in this paper: (1) a new definition of key equivalence, (2) minimization techniques of logic functions (prime implicant generation, a generalized minimum cover problem), (3) the idea used in the minimization of incompletely specified sequential machines." (For the entire collection see MR 81f:68006.)

Reviewer: Author's summary

Review Type: Abstract

Proceedings Reference: 81f#68006 ; 583 424

Descriptors: * 68B15 -Computer science (For papers involving machine computations and programs in a specific mathematical area, see Section --04 in that area)- Software-Theory of data (filing, etc.)

Patents - fulltext - with definition of "partial sum"

Set Items Description

S1 81518 S NORMALIZE? ? OR NORMALIZING OR NORMALIZATION? ?

S2 3390 S S1 (10N) (SORT OR SORTS OR SORTED OR SORTING OR ORDER OR ORDERED OR ORDERING)

S3 923 S PARTIAL()(SUM OR SUMS)

S4 1 S S2 (30N) S3

S5 172523 S (VALUE? ? OR NUMBER? ? OR WEIGHT? ?) (5W) (GREATER OR MORE OR HIGHER OR LARGER OR BIGGER)() THAN

S6 3620 S (SUM OR SUMS OR SUMMED OR SUMMING OR TOTAL OR TOTATED OR TOTALING) (5W) S5

S7 1 S S6 (30N) S2

S8 1 S S7 NOT S4

; show files

[File 348] EUROPEAN PATENTS 1978-2007/ 200708

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*File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

[File 349] PCT FULLTEXT 1979-2007/UB=20070222UT=20070215

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[File 350] Derwent WPIX 1963-2006/UD=200712

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*File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit <http://www.dialog.com/dwpi/>.

4/5K/1 (Item 1 from file: 349)

PCT FULLTEXT

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00929693

SYSTEMS AND METHODS FOR A PARTIAL SUM DIGITAL FIR FILTER

SYSTEMES ET PROCEDES POUR FILTRE NUMERIQUE A REPONSE IMPULSIONNELLE FINIE (FIR) AVEC SOMMATION PARTIELLE

Patent Applicant/Patent Assignee:

- CONEXANT SYSTEMS INC; 4311 Jamboree Road, Newport Beach, CA 92660-3095
US; US(Residence); US(Nationality)

	Country	Number	Kind	Date
Patent	WO	200263764	A1	20020815
Application	WO	2002IB131		20020116
Priorities	US	2001777622		20010205

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC

H03H-017/02

Level

Main

Publication Language:

English

Filing Language:

English

Fulltext word count:

8251

English Abstract:

A digital FIR filter is provided that inputs a series of data samples $x[0]x[n]$ and generates a partial sum output $PS[i]$ where $i \leq n$. The partial sum output is a weighted version of the difference between a partial sum of the previous $i-1$ data samples, $PS[i-1]$, and the current data sample $x[n]$ added to the current data sample $x[n]$. The filter includes a plurality of weighting stages. Each weighting stage includes a first adder for subtracting the current data sample $x[n]$ from the previous partial sum $PS[i-1]$, a multiplier that multiplies the difference by a weighting coefficient, and a second adder that sums the weighted difference with the current data sample. The filter also includes a plurality of delay elements, each of which inputs a partial sum and imposes a unit delay on the partial sum before supplying it to a weighting stage.

French Abstract:

L'invention concerne un filtre numerique a reponse impulsionnelle finie (FIR), qui entre une serie d'echantillons de donnees $x[0] x[n]$ et produit une sortie d'une somme partielle $PS[i]$ dans laquelle $i \leq n$. La sortie de somme partielle est une version ponderee de la difference entre une somme partielle des echantillons de donnees anterieurs $i-1$, de $PS[i-1]$, et de l'echantillon de donnees actuel $x[n]$ ajoute a l'echantillon de donnees actuel $x[n]$. Le filtre comprend plusieurs etages de ponderation. Chaque etage de ponderation comprend un premier additionneur pour soustraire l'echantillon de donnees actuel $x[n]$ de la somme partielle precedente $PS[i-1]$; un multiplicateur pour multiplier la difference par un coefficient de ponderation; et un second additionneur pour additionner la difference ponderee avec l'echantillon de donnees actuel. Le filtre comprend egalement plusieurs elements de retard dont chacun entre une somme partielle et impose un retard unitaire a la somme partielle avant de transmettre cette derniere a un etage de ponderation.

Type	Pub. Date	Kind	Text
Publication	20020815	A1	With international search report.
Publication	20020815	A1	Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
Examination	20030103		Request for preliminary examination prior to end of 19th month from priority date

Detailed Description:

...to full scale so that a meaningful comparison with incoming data samples can be made. In filter 200 of Figure 3, for example, since the partial sums $PS[0] ... PS[i]$ have not passed through all gain or multiplier stages, they will not be at full scale. In order to normalize these partial sums, a normalization factor consisting of the full gain (i.e., the sum of all the coefficients $a[0] ... a[n]$) divided by the partial gain (i.e ...